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P O Box 1450 Alexandria, Virgima 22313-1450

DATE MAILED: 10/07/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

26389 7590 10/07/2009 CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC

CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PL 1420 FIFTH AVENUE SUITE 2800 SFATTI E. WA 98101-2347

EXAMINER					
KIANNI, KAVEH C					
ART UNIT	PAPER NUMBER				
2883	PAPER NOMBER				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,248	06/20/2005	Mikio Miyake	MICS124074	2899

TITLE OF INVENTION: OPTICAL FIBER CONNECTOR-USE FERRULE AN OPTICAL FIBER CONNECTOR STRUCTURE, AND FERRULE CONNECTING SLEEVE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	01/07/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless corrected maintenance fee notification	form should be used for orrespondence includir d below or directed oth	or trans ig the Pa erwise i	mitting the ISSU atent, advance or in Block 1, by (a	TE FEE and PUBLE ders and notification a) specifying a new	CATI n of n	ON FEE (if requi naintenance fees w pondence address;	red). E rill be a and/or	Hocks 1 through 5 sh mailed to the current (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for
IMMINERALICE TECHNICATIONS. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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SEATTLE, WAS	98101-2347								(Depositor's name)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVE	NTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	YES		\$755	\$300		\$0		\$1055	01/07/2010
EXAMI	NER	- /	ART UNIT	CLASS-SUBCLAS	s				
KIANNI, K	AVEH C		2883	385-070000					
	ndence address (or Cha /122) attached. cation (or "Fee Address or more recent) attach	' Indicat ed. Use	tion form of a Customer	or agents OR, alte (2) the name of a registered attorne 2 registered paten listed, no name w	single y or a it attor ill be	e firm (having as a gent) and the name meys or agents. If a printed.	memb	era 2	
PLEASE NOTE: Unle recordation as set forth (A) NAME OF ASSIG	NEE			(B) RESIDENCE: (CITY	and STATE OR C	OUNT	RY)	ocument has been filed for superity Government
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Advance Order - #				The Director is h	ereby		ge the r	equired fee(s), any det	ficiency, or credit any n extra copy of this form).
	SMALL ENTITY state	s. See 3	7 CFR 1.27.	☐ b. Applicant is n	o lon	ger claiming SMAI	LEN	TITY status. Sec 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeords of the United Sta	iired) w tes Patei	ill not be accepted nt and Trademark	from anyone other to Office.	than ti	he applicant; a regi	stered a	ittorney or agent; or th	e assignee or other party in
Authorized Signature _						Date			
Typed or printed name						Registration N			
This collection of informa an application. Confidenti submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	tion is required by 37 C ality is governed by 35 application form to the ms for reducing this bur ginia 22313-1450. DC 3-1450.	FR 1.31 U.S.C. USPTC den, sho NOT S	1. The informatic 122 and 37 CFR D. Time will vary ould be sent to the SEND FEES OR C	on is required to obtain 1.14. This collection depending upon the Chief Information COMPLETED FORM	in or r is est indiv Office AS TO	etain a benefit by the imated to take 12 r idual case. Any co r, U.S. Patent and D THIS ADDRESS	he publ ninutes mment Traden . SENI	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/517,248	06/20/2005	06/20/2005 Mikio Miyake		2899
26389 75	90 10/07/2009		EXAM	UNER
CHRISTENSEN.	, O'CONNOR, JOHN	KIANNI,	KAVEH C	
1420 FIFTH AVE	NUE	ART UNIT	PAPER NUMBER	
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/517,248	MIYAKE ET AL.	
Examiner	Art Unit	
K. Cvrus Kianni	2883	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.33 and MPEP 1308.

- This communication is responsive to 7/17/09.
- The allowed claim(s) is/are 1 and 21-32.
- 3. The drawings filed on 07 December 2004 are accepted by the Examiner.
- 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
- 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application (PTO-152)
- Interview Summary (PTO-413), Paper No./Mail Date _____.
 Examiner's Amendment/Comment
- 9. ☐ Other .

/K. Cyrus Kianni/ Primary Examiner. Art Unit 2883 Application/Control Number: 10/517,248

Art Unit: 2883

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

This examiner's Amendment is allowed because the applicant's election of claims 1 and 21-32 has been without traverse. Thus the non-elected claims 33-43 are cancelled by the examiner in order to make the case allowable.

Please cancel claims 33-43

Reason for Allowance

Claims 1 and 21-32 are allowed for the following reasons:

The instant application is deemed to be directed to a nonobvious improvement over the invention patented in Pat. No. Cartier (US 4767177) and Bouyques et al. (US 4139260).

Claim 1 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein the tip portion of the first ferrule is opposed to the second ferrule (meaning the second ferrule as a whole body being opposite to the tip of the first ferrule], and has a male convex shape extending to the end of the first ferrule tip portion, the tip portion has substantially the same cross section as the body when the tip portion adjoins the body, the geometry of the tip portion is different from the geometry of the body, and a surface of the tip portion slopes inwardly as the tip portion extends from

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Art Unit: 2883

the body; and a surface of the tip portion slopes inwardly as the tip portion extends from the body in combination with the rest of the limitations of the base claim. Claims 21-25 are allowed in virtue of dependency.

Claim 26 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious a base section of the end having the male convex shape is continued to an end edge of an annular step which is formed to have a diameter reduced in a radial direction of the ferrule, and a base section of the end having the female concave shape is continued to an end edge of an annular step which is formed to have a diameter reduced in a radial direction at an open end of the ferrule in combination with the rest of the limitations of the base claim. Claims 27-32 are allowed in virtue of dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Cyrus Kianni whose telephone number is 571-272-2417. The examiner can normally be reached on 9:30-19:00.

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Art Unit: 2883

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/K. Cyrus Kianni/

Primary Examiner, Art Unit 2883

September 25, 2009